

ZHEREBTSOV, V.V., inzh.; ZAYDMAN, Ya.D., inzh.

Test results of soil-compacting machinery. Otdr. 1 mel. 13
no.6:42-46 Je '61. (MIRA 14:6)

1. Giprovdokhoz Ministerstva sel'skogo khozyaystva SSSR.
(Soil stabilization)
(Hydraulic engineering--Equipment and supplies)

KROL', E.G., inzh.; KHOKHLOVA, A.N., inzh.; BEGLYAROV, S.A., inzh.,
rukovoditel' raboty; IGNATYUK, G.L., glavnyy red.; KAGAN, G.S.,
zamestitel' glavnogo red.; GANKIN, M.Z., red.; DEVILLERS, B.P.,
red.; ZHEREBTSOV, M.V., red.; ZHUKOV, G.A., red.; KREMER, Ye.S.,
red.; OFFENGENDEN, S.R., red.; PAVLOV, Ye.L., red.; PETROVSKAYA,
I.V., red.; FAYNTSIMMER, V.M., red.; FROG, N.P., red.;
CHERNIKEVICH, L.A., red.; SHAPAYEV, A.M., red.

[Special operating conditions of irrigation pumping stations.]
Spetsial'nye rezhimy orositel'nykh nasosnykh stantsii. Moskva,
Giprovdkhkh, 1964. 136 p. (Moscow. Vsesoiuznyi proektno-
izyskatel'skii i nauchno-issledovatel'skii institut Giprovd-
khkh. Trudy, no.27). (MIRA 19:1)

1. Nachal'nik otdela nasosnykh stantsiy Vsesoyuznogo gosudarst-
vennogo proyektno-izyskatel'skogo i nauchno-issledovatel'skogo
instituta vodokhozyaystvennogo stroitel'stva (for Beglyarov).

ZHEREBTSOV, V.V., inzh.; PISHCHIKOV, R.S., inzh.; FILIPPOV, F.P., inzh.

Using earthmoving machinery in water management. Trudy Giprovod-
khoza no.25:52-71 '63.
(MIRA 18:6)

GOL'DIN, A.Ya.; inzh.; ZHEREBTSOV, V.V., inzh.; ZAYDMAN, Ya.D., inzh.

Machines for compacting the earth in irrigation canals. Mekh.stroi.
18 no.7:14-16 JI '61. (MIRA 14:7)

1. Gosudarstvennyy institut po proyektirovaniyu vodokhozyaystvennogo
i meliorativnogo stroitel'stva Ministerstva sel'skogo khozyaystva
SSSR.

(Soil stabilization) (Irrigation canals and flumes)

ROGOVSKIY, T.T.; POZDIN, V.A.; YARUSHIN, M.I. Prinimal uchastiye
ZHEREBTSOV, V.V.; YELIZAVETSKAYA, G.V., red.

[Mechanization, organization, and production in hydraulic
engineering] Mekhanizatsiia, organizatsiia i proizvodstvo
gidrotekhnicheskikh rabot. Moskva, Kolos, 1965. 518 p.
(MIRA 18:10)

6.3)

AUTHORS:

Bagayev, V. S., Vul, B. M., Zherebtsova, A. A., Yuditkiy, S. B. SOV/105-59-10-4/25

TITLE:

Investigation of Large Germanium Rectifiers

PERIODICAL:

Elektrichestvo, 1959, Nr 10, pp 21-26 (USSR)

ABSTRACT:

This article presents the results of an investigation of large germanium rectifiers of the VG type which were made by the Vsesoyuznyy elektrotekhnicheskii institut im. Lenina (All-Union Electrotechnical Institute imeni Lenin)(Ref 1). Figure 1 shows the section of a VG-10 rectifier. The dependence of the rectified currents upon voltage and temperature was determined at a temperature maintained constant by means of a thermostat. The saturation current was determined by measuring the direct and backward current at voltages of

$$U \approx \frac{kT}{q} \text{ and according to the}$$

backward branch of the static characteristics (Ref 4). U denotes the voltage in the p-n transition of the rectifier, T the absolute temperature, k the Boltzmann constant, and q the elementary charge. The backward branch of the static characteristics was plotted at two values of heat emission. The investigation yielded

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30V/105-59-10-4/25

the following results: (1) The rectified current I_d exhibits a sufficiently large section on the static characteristics for which formula (1) holds. The deviations from this formula occurring at increased current densities result from the occurrence of the electron component of the rectified current, which in turn leads to an additional voltage drop and additional losses. The temperature coefficient of the rectified current in the experiments is in good agreement with that of calculations. It is about 3% for the group of rectifiers under discussion. (2) The saturation current calculated according to the formula (see Table 3) is somewhat higher than those obtained by experiment. (3) The differential capacity of p-n transitions of the investigated rectifiers is inversely proportional to the square root of the voltage applied. This indicates the gradual character of the p-n transitions. (4) The backward currents increase monotonously with increasing backward voltage. (5) The pulsed breakdown voltages of the individual rectifiers approximately agree with those to be expected from the specific resistance of germanium foils. Formula (11) yields excessively high breakdown voltages if the heating of the rectifier is assumed to be the only reason

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SOV/105-59-10-4/25

for the increase in the backward current. Formula (13) holds for the overheating of the diode when breakdown occurs, which approximately agrees with the experimental results. There are 7 figures, 6 tables, and 7 references, 4 of which are Soviet.

SUBMITTED: May 11, 1959

Card 3/3

9,4340 (1003, 1143, 1150)

30436
S/109/61/006/012/011/020
D264/D305

AUTHORS: Bagayev, V.S., Zherebtsova, A.A., and Pavlenko, V.A.

TITLE: Capacitance and series resistance of germanium diodes

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 12, 1961,
2036 - 2040

TEXT: The authors measured the capacitance C and series resistance r_s of diodes prepared by fusion and diffusion methods, in order to specify these parameters in the equivalent circuit. The dependence of the parameters on raw material, methods of preparation and geometrical dimensions were studied. Frequencies of measurement were 130 kc, 40 and 1830 mc. At 130 kc C and the equivalent parallel resistance R were measured as functions of reverse voltage by a bridge, type 2T, accurate to 0.2 nF. At 40 mc, a Q-meter was used and at 1830 mc each diode formed the complex load terminating a waveguide. The standing wave ratio and the shift of the standing wave minimum were measured. r_s and C were calculated from the load-

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Capacitance and series resistance ...

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short circuit- and open circuit- admittances. The 1830 mc apparatus comprised an audio generator (ЗГ-10) [3G-10] which synchronized a rectangular pulse generator (ГМП-1) [GIP-1]. The latter modulated the microwave oscillator (ГСС-15) [GSS-15] feeding the line. The signal from the standing wave indicator probe passed through an amplifier (28 ИМ) [28IM] and a synchronized detector with a bandwidth of 1 cycle. The capacitances of all diodes were independent of frequency. Typical values shown in a figure decrease linearly with increasing reverse voltage from 3.5 nF at 1 v to 1 nF at 10 v (fused diodes) and from 16 nF at 0.5 v to 6 nF at 9 v (diffused). The series resistance did not depend upon the reverse voltage and had the same value at 40 and 1830 mc in the cases of fused p⁺-n diodes, etched with hydrogen peroxide, and of diffused n⁺-p diodes, etched with CP-4 [SR-4]. For diffused diodes, etched with hydrogen peroxide, r_s was 2 to 5 times greater at 40 mc than at 1830 mc. An explanation is offered involving the formation of a superficial inversion layer on the p-side. The following data for 18 diodes prepared in these three ways are tabulated: breakdown voltage, specific resistance of the raw material, area of the p-n junction, thickness

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Capacitance and series resistance ...
ness ℓ of the base, calculated and measured r_s , capacitance of the
p-n junction for -2 v bias. ℓ was estimated visually by microscop-
ic examination of cut junctions and in the case of diffused diodes
by a thermal probe method. A graphical method of determining $\phi^* =$
 $U_k - U_1$ is given (U_k = contact difference of potentials, U_1 = de-
crease of voltage at the inversion layer). For fused diodes the
measured values of ϕ^* were 0.23 v when the excess concentration of
ionized impurity $N_d = 2 \times 10^{16} \text{ cm}^{-3}$ and 0.28 v when $N_d = 3.5 \times 10^6$
 $\times \text{cm}^{-3}$. These are 70 % of the calculated values of ϕ^* . Acknowledge-
ment is made to B.M. Vul for guidance, N.Ye. Skvortsova, Yu.F. So-
kolov and S.N. Ivanov for discussion and Yu.N. Korolev, L.N. Novak
and G.P. Proshko for preparation of samples. There are 7 figures,
2 tables and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc. The
references to the English-language publications read as follows:
S.T. Eng and R. Solomon, Proc. I.R.E., 1960, 48, 3, 358 and D.E.
Sawyer, J. Appl. Phys., 1959, 30.11, 1689.

Card 3/4

30436

S/109/61/006/012/011/020
D264/D305

Capacitance and series resistance ...

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedeva AN SSSR (Physics Institute Im. P.N. Lebedev, AS USSR)

SUBMITTED: December 28, 1960

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Card 4/4

BAGAYEV, V.S.; ZHEREBTSOVA, A.A.; PAVLENKO, V.A.

Capacitance and series resistance of germanium diodes. Radiotekh.
i elektron. 6 no.12:2036-2040 D '61. (MIRA 14:11)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR.
(Germanium diodes)

VALYASHKO, M.G.; POLIVANOVA, A.I.; ZHEREBTSOVA, I.K.

Jet gravitation movement and its role in the formation and
distribution of natural waters. Vest.Mosk.un.Ser.4:Geol. 20
no.5:9-30 S-O '65.
(MIRA 18:11)

1. Kafedra geokhimii Moskovskogo gosudarstvennogo universiteta.

VALYASHKO, M.G.; POLIVANOVA, A.I.; ZHEREBTSOVA, I.K.; METTIKH, B.I.;
VLASOVA, N.K.; NIKOLAYEV, A.V., otv. red.; STOLYAROV, A.G.,
red.

[Geochemistry and genesis of brines of the Irkutsk amphi-
theater] Geokhimiia i genezis rassolov Irkutskogo amfi-
teatra. Moskva, Nauka, 1965. 158 p. (MIRA 19:1)

VALYASHKO, M.G.; POLIVANOVA, A.I.; ZHEREBTSOVA, I.K.

Experimental study of the displacement of solutions of different specific gravity in porous rocks in connection with vertical hydrogeochemical zoning. Geokhimiia no.3:312-328 Mr '63.

(MIRA 16:9)

1. Chair of Geochemistry, Lomonosov State University, Moscow.
(Saline waters—Analysis)

BOCHIN, V.P.; ZHEREBTSOVA, K.I.; KOMAROV, V.A.; KRASNOV, L.V.; LITVIN, V.F.;
NEMILOV, Yu.A.

Study of (d,p) stripping reactions on nuclei of medium atomic weight.
Part 3. Vest. LGU 20 no.10,34-51 '65.
(MIRA 18:7)

BOCHIN, V.P.; ZHEREBTSOVA, K.I.; KOMAROV, V.A.; KRASNOV, L.V.; LITVIN, V.P.;
NEMILOV, Yu.A.

Elastic scattering of deuterons on separated nickel and zinc
isotopes. Zhur. eksp. i teor. fiz. 47 no.3:855-859 S '64.

1. Leningradskiy gosudarstvennyy universitet.

(MIRA 17:11)

BOCHIN, V.P.; ZHEREBTSOVA, K.I.; ZOLOTAREV, V.S.; KOMAROV, V.A.;
KRASNOV, L.V.; LITVIN, V.F.; NEMILOV, Yu.A.;
NOVATSKIY, B.G.

Study of (d, p) stripping reactions and (d, d) elastic
scattering on nuclei of mean atomic weight. Part 2. Vest.
LGU 18 no.22:78-84 '63.
(MIRA 17:1)

ZHEREBTSOVA, K.I.; LITVIN, V.F.; NEMILOV, Yu.A.; CHZHAN TSZYAN' [Chang Chien]

Measurements of the absolute differential cross sections of
proton groups from the reaction $Al^{27}(d, p)Al^{28}$. Vest. LGU
18 no.22:63-67 '63.
(MIRA 17:1)

BOCHIN, V.P.; ZHEREBTSOVA, K.I.; ZOLOTAREV, V.S.; KOMAROV, V.A.;
KRASNOV, I.V.; LITVIN, V.F.; NEMILOV, Yu.A.; PISKORZH, Sh.

Study of (d, p) stripping reactions and (d, d) elastic
scattering on nuclei of mean atomic weight. Part 1. Vest.
LGU 18 no.22:68-77 '63.
(MIRA 17:1)

LITVIN, V.F.; ZHEREBTSOVA, K.I.

Graduation of a multiangular magneto analyzer-multispectrograph.
Prib. i tekhn. eksp. 8 no.6:33-36 M-D '63. (MIRA 17:6)

1. Leningradskiy gosudarstvennyy universitet.

"APPROVED FOR RELEASE: 03/15/2001

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APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720006-4"

8/056/61/041/006/012/054
B113/B104

AUTHORS: Zherebtsova, K. I., Litvin, V. F., Liu Chao-yuen, Nemilov, Yu. A.

TITLE: Levels of the Si^{30} nucleus from the reaction $\text{Si}^{29}(\text{d}, \text{p}) \text{Si}^{30}$

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41, no. 6(12), 1961, 1761-1762

TEXT: New data on the levels of the Si^{30} nucleus were obtained when measuring the energy and angular distributions of protons in the reaction $\text{Si}^{29}(\text{d}, \text{p}) \text{Si}^{30}$ with a multispectrograph. The bombarding deuterons had an energy of 6.58 Mev. The $0.5 \text{ mg} \cdot \text{cm}^{-2}$ thick target consisted of 34.9% Si^{28} , 63.7% Si^{29} , and 1.4% Si^{30} . A number of levels of the Si^{30} nucleus found by Browne and Radzynski (Ref. 5: Nucl. Phys., 19, 164, 1960) were confirmed. Because of the complexity of the energy spectrum, it was only possible to obtain angular distributions for two Si^{30} levels (excitation energies 8.149 and 8.571 Mev). The following results are obtained by comparing the experimental and theoretical data (Ref. 5):

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Levels of the Si^{30} nucleus ...

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Final nucleus	Excitation energy, Mev	l_n	possible values of the nuclear spin I, π	configuration according to shell model
Si^{29}	4.93	1	$3/2^-$	$2P_{3/2}$
Si^{30}	8.149	1	$0^-, 1^-, 2^-$	$(2S_{1/2})^1 (2P_{3/2})^1$
Si^{30}	8.571	1 or 0		or $(2S_{1/2})^1 (2P_{1/2})^1$

On account of the considerable admixture of Si^{28} nuclei in the target, it was possible to compare the "adhesion" probability of the neutron in the p-state of the Si^{29} and Si^{30} nuclei since the corresponding proton groups were obtained in the same experiment. There are 2 figures, 1 table, and 5 references: 3 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: C. P. Browne, J. T. Radzynski. Nucl. Phys., 19, 164, 1960; A. B. Bhatia, Kun Huang, R. Huby, H. C. News. Card 2/3

Levels of the Si^{30} nucleus ...

S/056/61/041/C06/012/054
B113/B104

Phil. Mag., 43, 485, 1952.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of
the Academy of Sciences USSR)

SUBMITTED: June 30, 1961

Card 3/3

ALEKSANDROVA, M.I.; ZHERNETSOVA, K.I.

In memory of Maria Leonovna Obrel. Trudy Radiev. inst. AN SSSR
6:27-28 '57. (MIRA 11:2)

(Obrel, Maria Leonovna, 1916-1949)

GUSEVA, M.I.; ZHERKETSOVA, K.I.; LITVIN, V.F.; NEMILOV, Yu.A.;
ORLOVA, T.V.

Nature of the 3.79 Mev. excitation energy level of the
 Si^{30} nucleus. Zhur. eksp. i teor. fiz. 44 no.2:421-423
F '63.
(MIRA 16:7)

BOZHIN, V. P.; ZHEREBTSOVA, K. I.; KRASNOV, L. V.; KOMAROV, V. A.; LITVIN, V. F.;
NEMILOV, Yu. A. 5

"Investigations of the Reactions of Type (d,p) on Isotopes of Zn, Ni,
and Fe⁵⁸."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22
Feb 64.

Radiyevyy Institut (Radium Inst)

GUSEVA, M.I.; ZHEREBTSOVA, K.I.; LITVIN, V.F.; NEMILOV, Yu.A.

Si^{31} nucleus excitation levels. Vest. LGU 18 no.10:130 '63.
(Silicon isotopes) (Protons) (MIRA 16:8)

S/056/63/044/002/005/065
B102/B186

AUTHORS: Guseva, M. I., Zhrebtsova, K. I., Litvin, V. F., Nemilov, Yu. A., Orlova, T. V.

TITLE: The nature of the 3.79-Mev excited level of the Si^{30} nucleus

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 2, 1963, 421-423

TEXT: The energy spectra and angular distributions of the protons from $\text{Si}^{29}(\text{d}, \text{p})\text{Si}^{30}$ reactions were investigated with a multi-angle magnetic analyzer. The target, a film consisting of silver plus silicon with $200 \mu\text{g}/\text{cm}^2$ Si and 70% Si^{29} , was bombarded by 6.59-Mev deuterons. The protons emitted in the nuclear reaction were analyzed with respect to energy in the range 5-15 Mev, and with respect to emission direction in the interval $10-90^\circ$. Besides the energy peaks corresponding to the Si^{30} ground state, and the states with 2.24 and $(8.09 + 8.149)$ Mev, the 3.79-Mev level of the Si^{30} nucleus was investigated and its proton angular

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The nature of the 3.79-Mev ...

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B102/B186

distribution was obtained for the first time. Its characteristics were:
 $l_n = 0, J = 0^+, C^2 \theta^2 [J] = 1.7 \pm 0.6$, the reduced width (cf. Rev. Mod.
Phys. 32, 567, 1960). This level could be considered as a two-quasi-
particle level. The respective characteristics of the ground and the
(8.09 + 8.149) Mev states are: 0, 0^+ , 1, and 1, ($0^-, 1^-, 2^-$), 5.0 ± 1.5 .
There are 2 figures and 1 table.

SUBMITTED: July 27, 1962

Card 2/2

21(7)

AUTHORS:

Zherebtsova, K. I., Makarova, T. P., Nemilov, Yu. A., Funshteyn, B. L. SOV/56-35-6-5/44

TITLE:

On the Ratio Between the Yields of the Isomeric and the Ground State of Zn^{69} , Produced in Various Nuclear Reactions (O soot-noshenii mezhdu vykhodami izomernogo i osnovnogo sostoyaniy Zn^{69} , obrazuyemogo v rezul'tate razlichnykh yadernykh reaktsiy)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 6, pp 1355-1357 (USSR)

ABSTRACT:

In the introduction, several papers dealing with this subject which have already been published (Refs 1-3) are dealt with, and the problem is discussed. The authors themselves investigated the following reactions:

a) $Zn^{68}(d,p)Zn^{69}$; b) $Ga^{69}(n,p)Zn^{69}$; c) $Ga^{71}(d,\alpha)Zn^{69}$.

Zn^{69} occurs as a β -active isotope with the half-life of 57 min., and it has an isomeric state which goes over into the ground state with a half-life of 13.8 h.

The ratio σ/σ_0 ($=Zn^{69}$ -yield in the isomeric state/ Zn^{69} -yield in the ground state) was determined by the authors from the analysis of the decay curve (β -particles were counted by means of a G.M. counter).

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On the Ratio Between the Yields of the Isomeric and the Ground State of Zn^{69} ,
Produced in Various Nuclear Reactions

SOV/56-35-6-5/44

σ^*/σ of Zn^{69} was hitherto measured as 0.29 (capture of thermal neutrons by Zn^{68} , reference 1) and from the reaction $Ge^{72}(n,\alpha)Zn^{69}$ by using 14 Mev neutrons as being $\sigma^*/\sigma = 1.1$ (Ref 4). d-irradiation was carried out in the outer chamber of a cyclotron (E_d with an accuracy of up to 0.5 Mev), and n-irradiation on a neutron generator with a tritium target. The result obtained by the investigation of the reaction a) is shown by figure 1: Within the energy range of $2.5 \leq E_d \leq 9$ Mev, σ^*/σ increases slightly with increasing energy and remains constant at ~ 0.5 . The reaction b) for $E_n = 14$ Mev results in $\sigma^*/\sigma = 1.4$, and reaction c) finally results in a value fluctuating by 0.5 within the error limits for deuteron energies between 4 and 8 Mev. The fact that Levkovskiy (Ref 4) found practically the double value for the reaction $Ge^{72}(n,\alpha)Zn^{69}$ (with E_n being equal) is finally discussed. - There are 2 figures and 4 references, 1 of which is Soviet.

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SOV/56-35-6-5/44

On the Ratio Between the Yields of the Isomeric and the Ground State of Zn^{69} ,
Produced in Various Nuclear Reactions

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR
(Radium Institute of the Academy of Sciences, USSR)

SUBMITTED: June 16, 1958

Card 3/3

ALEKSEYEV, N.V.; ZHEREBTSOVA, K.I.; LITVIN, V.P.; SEMILOV, Yu.A.

Investigating stripping reactions in C^{12} , O^{16} , Si^{28} . Zhur.
eksp. i teor. fiz. 39 no. 6:1508-1510 D '60. (MIRA 14:1)

1. Radiyevyy institut Akademii nauk SSSR.
(Nuclear reactions)

ZHEREBTSOVA, K.I.; LITVIN, V.F.; NEMILOV, Yu.A.

Study of stripping and elastic scattering of deuterons on C^{12}
nuclei. Zhur. eksp. i teor. fiz. 43 no.1:8-10 J1 '62.
(Deuterons---Scattering) (Protons---Scattering) (MIRA 15:9)
(Carbon---Isotopes)

ZHEREBTSOVA, K. I., MAKARGVA, T. P., NEMILOV, Yu. A., and FUNSHTEYN, B. L.

"Sur la production relative des etats isomeriques et fondamentaux⁶⁹ Zn
produits dans des reactions nucleaires differentes."

report presented at the Intl. C^ongress for Nuclear Interactions (Low Energy and
Nuclear Structure (Intl. Union Pure and Applied Physics) Paris, 7-12 July 1958.

ZHEREBTSOVA, K. I.

"On the Anomalous Dispersion in Lead Vapours," Zhur. Eksper. i Teoret. Fiz., 9, No. 5, 1939.

Mbr., Lab. General Spectroscopy, State Optical Inst., Leningrad, -1939-.

ZHEREBTSOVA, K. I., FUNSTEYN, B. L. and NEMILOV, Y. A.

"Relationship between Probabilities of Stripping and Compound Nucleus Formation"
a paper presented at the International Conference on Nuclear Reactions, Amsterdam,
2-7 July 1956.

D55127⁴

ZHERBETSOVA, K.I.; MAKAROVA, T.P.; NEMILOV, Yu.A.; FUNSHTEYN, B.I.

Ratio between the isomeric and the ground state yields of
 Zn^{69} formed as a result of various nuclear reactions [with summary
in English]. Zhur. eksp. i teor. fiz. 35 no.6:1355-1357 D '58.
(MIRA 12:3)

1. Radiyevyy institut AN SSSR.
(Zinc--Isotopes) (Nuclear reactions)

88421

S/056/60/039/006/005/063
B006/B056

34-6600
AUTHORS:

Alekseyev, N. V., Zherebtsova, K. I., Litvin, V. F.,
Nemilov, Yu. A.

TITLE:

Investigation of the Stripping Reactions on C^{12} , O^{16} and Si^{28}

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 6 (12), pp. 1508 - 1510

TEXT: A report is given on (d,p) reactions on Si^{28} , O^{16} and C^{12} -nuclei; the 6.25 Mev deuteron beam (from a cyclotron) used was monochromatic with an accuracy of $\sim 1\%$. The energy spectrum of the reaction products was recorded by means of a novel magnetic analyzer, a so-called multispectrograph (described in Refs. 5, 6). Films ~ 1.5 mg/cm² thick were used, viz: Polyethylene film (carbon target), quartz film (O- and Si-target), and Si (in natural isotopic composition) per $\sim 0.2\mu$ silver. Fig. 1 shows the energy spectrum obtained, Fig. 2 the proton angular distribution of various Si^{29} -energy groups, and the Table gives the values of the angular momenta l_n obtained by comparison with the theory (transferred into the final

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Investigation of the Stripping Reactions on
C¹², O¹⁶ and Si²⁸

S/056/60/039/006/005/063
B006/B056

nucleus by the neutron), spin and parity, as well as the reduced probabilities Λ_n for the "adhesion" of a neutron. From a comparison with the theory it follows, e. g., that the excited 5.946-Mev level of the Si²⁹-nucleus has negative parity and a spin of 3/2 or 1/2, etc. (cf. Table). There are 2 figures, 1 table, and 9 references: 5 Soviet, 1 British, 2 US, and 1 Canadian. X

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of the Academy of Sciences USSR)

SUBMITTED: June 15, 1960

Card 2/9

ZHEREBTSOVA, K. I.

Category : USSR/Nuclear Physics - Nuclear Reactions

C-5

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3256

Author : Nemilov, Yu. A., Zherebtsova, K.I., Funshteyn, B.L.

Inst : Radium Institute, Academy of Sciences USSR

Title : On the Relation Between the Stripping and Compound-Nucleus Formation in Reactions with Deuterons.

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 6, 1013-1016

Abstract : The relative probability of the "stripping" and compound-nucleus formation is estimated in the Mg^{26} (d, p) Mg^{27} reaction by comparing the yields of the final nuclei, formed as a result of the (d,p) and d, α) processes on the Mg^{26} nucleus and of (m, p) and (n, α) reactions on the Al^{27} nucleus. It was observed that the ratio of the stripping cross section to the cross sections of the compound-nucleus formation varies with deuteron energy and reaches a maximum of 8 -- 9 for deuteron energy 1 -- 2 Mev.

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ZAYTSEVA, M.P.; ZHEREBTSOVA, L.I.; VINOGRADOVA, I.S.

Phase transitions in ferroelectric alum. Izv. AN SSSR. Ser.
fiz. 29 no.6:914-916 Je '65. (MIRA 18:6)

ZAYTSEVA, M.P.; ZHELUDEV, I.S.; ZHEREBTSOVA, L.I.; FOTCHENKOV, A.A.

Intensity of an electric field required to bring about polarization equal to spontaneous polarization. Izv. AN SSSR. Ser. fiz. 29 no.6:948-950 Je '65. (MIRA 18:6)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR i Institut kristallografii AN SSSR.

CHERVINSKIY, K.A.; BARANOVA, Ye.I.; ZHEREBTSOVA I.P.; KIRICHENKO, G.S.

Effect of carboxylic acid additions on the processes of liquid phase oxidation. Zhur.prikl.khim. 38 no.6:1373-1380 Ja '65.

(MIRA 18:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut imeni F.E. Dzerzhinskogo.

ZHEVAKIN, S.A.; NAUMOV, A.P.

Calculation of the coefficient of absorption of centimeter
and millimeter radio waves in the oxygen of the atmosphere.
Radiotekh. i elektron. 10 no.6:987-996 Je '65.

(MIRA 18:6)

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~~Controlled on Periodic Security, Approved on 12-10-1987~~

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FOTCHENKOV, A.A.; ZAYTSEVA, M.P. ZHEREBTSOVA, L.I.

Electrostriction of triglycine sulfate. Kristalografiia 8 no.5:
724-728 S-O '63. (MIRA 16:10)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR.

CHERVINSKIY, K.A.; ZHEREBTSOVA, L.P.

Origin of the degenerated branching of reaction chains in the
catalyzed oxidation of p-xylene in the liquid phase. Trudy DKHTI
no.16:95-100 '63. (MIRA 17:2)

CHERVINSKIY, K.A.; ZHEREBTSOVA, L.P.; KOROTUN, L.S.

Kinetics of p-xylene catalyzed oxidation in the liquid
phase. Ukr. khim. zhur. 29 no.8:842-847 '63. (MIRA 16:11)

1. Dnepropetrovskiy khimiko-tehnologicheskii institut im.
F.E. Dzerzhinskogo.

BERLIN, A.A.; ZHEREBTSOVA, L.V.; RAZVODOVSKIY, Ye.F.

Polymers with a conjugation system. Part 37: Synthesis of polymers with charged heteroatoms in the macromolecular chain (onium polymerization). Vysokom. soed. 6 no.1:58-63 Ja'64.
(MIRA 17:5)

1. Institut khimicheskoy fiziki AN SSSR.

ACCESSION NR: AP1009118

S/0190/64/006/001/0058/0063

AUTHORS: Berlin, A. A.; Zharebtsova, L. V.; Razvodovskiy, Ye. F.

TITLE: Polymers with conjugated system. 37. Synthesis of polymers with charged heteroatoms in the macromolecular chain (onium polymerization)

SOURCE: Vyso'molekulyarny*ye soyedineniya, v. 6, no. 1, 1964, 58-63

TOPIC TAGS: polymer, polymerization, conjugated system, 4-chloropyridine, 4-bromopyridine, copolymerization, 1,4-dibromobutane, onium polymerization, charged heteroatom, polymerization kinetics, stepwise mechanism, ionic state

ABSTRACT: In the so-called "onium" type of polymerization the growth of the chain is said to proceed via the incorporation of heteroatoms as ions of abnormal valency. In the present paper, 4-chloropyridine and 4-bromopyridine were subjected to thermal polymerization in sealed evacuated glass ampules in a temperature range of 0-210C, for a 3-5 hour period. The polymerization of 4-chloropyridine was also conducted in pyridine solution at 100C for 6 hours. Copolymerization of gamma,gamma'-dipyridyl with 1,4-dibromobutane was also achieved. The polymers obtained were subjected to chemical analysis, and their molecular weight, electrical conductivity, infrared spectra, and electron paramagnetic resonance data studied. In the opinion of the

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ACCESSION NR: AP4009148

authors the polymerization process presumably proceeded along steps outlined in Fig. 1 of the Enclosure, in a stepwise pattern, through the stage of an ionized complex involving a transfer of charge as well as of the intermediate complex. It was found that polymerization in an aluminum cell proceeded without any induction period and at an accelerated pace as compared with a silicone-coated cell. The addition of 0.5-1.0% KI catalyzed the polymerization of 4-chloropyridine. A maximum molecular weight of 4360 for the 4-chloropyridine polymer was obtained at 165°C, while the 4-bromopyridine polymer had a molecular weight of 1920 at 150°C. All polymers were soluble in water and hydrochloric acid, while only the ones obtained at 0-50°C were soluble in methanol and ethanol. The polymers possessed increased electroconductivity. Spontaneous polymerization in 4-bromopyridine monomers on storage was observed, the polymer being of crystalline structure. Thanks are given to Ye. I. Palabanov for determination of electrical properties of the polymers. Orig. art. has: 1 formula, 2 tables, and 2 charts.

ASSOCIATION: Institut khimicheskoy fiziki, AN SSSR (Institute of Chemical Physics, AN SSSR)

SUBMITTED: 27Jul62

DATE ACQ: 10Feb64

ENCL: 01

SUB CODE: CH
Card 2/32

NO REF SOV: 005

OTHER: 005

ZHEREBTSOVA, N.D.

PART I BOOK REVIEWS 807/559

Alomayr, 1958. Institute metallurgii. Research report on problems thermodynamics alloy

Investigations of heat-resistant alloys, Vol. 5) Moscow, Izdatel'stvo MSU, 1959. 425 p. Krista alloy inserted. 2,000 copies printed.

Ed. of Publishing House: V.A. Klyuzov, Tech. Ed.: I.F. Kuznetsov, Editorial Board: I.F. Kuznetsov, Academician, G.F. Kuznetsov, Academician, I.F. Kuznetsov, Corresponding Member, USSR Academy of Sciences (Moscow), I.F. Kuznetsov, I.F. Kuznetsov, and I.F. Kuznetsov, Candidate of Technical Sciences.

REPORT: This book is intended for metallurgical engineers, research workers in metallurgy, and may also be of interest to students of advanced courses in metallurgy.

CONTENTS: This book, consisting of a number of papers, deals with the properties of heat-resistant metals and alloys. Each of the papers is devoted to the study of the factors which affect the properties and behavior of metals. The effects of various elements such as Cr, Ni, Mo, and W on the heat-resistant properties of various alloys are studied. Deformation and variability of certain metals as related to the thermal conditions are the object of another study described. The problems of hydrogen embrittlement, diffusion and the deposition of ceramic coatings on metal surfaces by means of electrolytic methods are considered. One paper describes the application of methods used for growing single crystals of metals. Another paper describes the use of combined and combined. The book contains a number of tables of data on the properties of metals. The book is written in Russian. References accompany most of the articles.

Editor: N.D. Zherebtsova, and N.D. Zherebtsova. Production of Forgings for Turbine and Compressor Blades

Dezhnevskiy, V.V., and N.D. Zherebtsova. Developing Apparatus and Methods for Obtaining Monocrystals of Metals

Moskvin, L.M. Forging and Its Effect on the Properties of Certain Nickel Alloys

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Spitsyn, A.P., L.I. Gendusa, and G.I. Zverovskiy. Application of Ceramic Coatings by the Electrochemical Method

Tashchuk, L.N., S.I. Tashchuk, and A.A. Yermolin. Heat Resistance of Chromium-Nickel Alloys

Klyuzov, V.V., and A.V. Zverovskiy. Temperature Dependence of Plasticity and Strength of Metals and Alloys

Zherebtsova, N.D., A.D. Kotlov, and N.D. Zherebtsova. Study of Thermodynamic Characteristics of Intermetallic Alloys and of the Plasticity of Alloys

Chudovskiy, A.V. Study of Thermal Characteristics of Alloys

Glasovskiy, K.V., and B.P. Kucharskiy. On Methods of Testing Heat-Resistant Materials for Creep and Corrosion Resistance Under Simulated Operating Conditions

Zherebtsova, N.D., and N.D. Zherebtsova. Dilatometric Study of Relaxation of Plastically Deformed Alloys

Legend, S.V. Method of Elimination by Forging With the Use of Heat Pressure

Kuznetsov, I.F. Basic Problems in Mechanical Properties of Heat-Resistant Alloys

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W/P
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ZHEREBTSOVA, P.; KURVATOV, N.; GALKINA, L.

Centralized manufacture of tomato and sour-cream sauces. Obschestv.pit.
no.1:27-29 Ja '63. (MIRA 16:4)

1. Leningradskiy institut sovetskoy trgovli imeni F.Engel'sa.
(Sauces)

ZHEREBTSOVA, P.

Instruments for determining the tenderness of meat. *Mias. ind. SSSR*
27 no.5:27-28 '56. (MIRA 9:11)

1. Leningradskiy institut sovetskoy trgovli.
(Meat)

ZHERBYAT'YEV, I.A.; KENESARIN, N.A., otvetstvennyy redaktor, kandidat
geologo-mineralogicheskikh nauk; LESHNOY, A.G., tekhnicheskii
redaktor

[The irrigation system of southern Kazakhstan] Irrigatsionnoe
khoziaistvo iuga Kazakhskoi SSR; nekotorye voprosy organizatsii
i ekonomiki. Alma-Ata, Izd-vo Akademii nauk Kazakhskoi SSR,
1950. 105 p. [Microfilm] (MLRA 7:10)
(Kazakhstan--Irrigation)
(Irrigation--Kazakhstan)

"APPROVED FOR RELEASE: 03/15/2001

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ZHEREBYAT'EV, I. F., LUK'YANOV, A. T., and VULIS, L. A.

"Solution of Non-linear Equations of Thermal Conductivity by
Static Electrical Integrators."

Report submitted for the Conference on Heat and Mass Transfer,
Minsk, BSSR, June 1961.

ZHEREBYAT'YEV, I.F., kand. fiziko-matem.nauk; LUK'YANOV, A.T., kand.
fiziko-matem. nauk; MOLYUKOV, I.D., kand. fiziko-matem. nauk;
PUSTYL'NIKOV, L.M.

Numerical solution of some problems of mechanics and physics
by the use of simulating devices. Vest. AN Kazakh. SSR 21
no.11:35-39 N '65. (MIRA 18:12)

ZHEREBYAT'YEV, I.F.; LUK'YANOV, A.T.

Solution of nonsteady-state heat conduction problems with phase transitions and temperature-dependent coefficients. *Inzh. fiz.* zhur. 7 no.6:102-107 '64. (MIRA 17:12)

1. Kazakhskiy gosudarstvennyy universitet imeni S.M. Kirova, g. Alma-Ata.

ZHUREBYATEV, I. F.; LUKIANOV, A. T.; RYKOVA, N. P.

"The mathematical simulation of nonlinear parabolic-type equations."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk,
4-12 May 1964.

Kazakh State Univ im S.M. Kirov.

"APPROVED FOR RELEASE: 03/15/2001

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ZHEREBYAT'YEV, I. P. , LUK'YANOV, A.T.TT and VULIS, L. A.

"Solution of non-linear thermal conductivity equations on static electro-integrators."

Report presented at the 1st All-Union Conference on Heat- and Mass-Exchange, Minsk, BSSR, 5-9 June 1961.

"APPROVED FOR RELEASE: 03/15/2001

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CIA-RDP86-00513R002064720006-4"

L 22102-66 ZWT(d)/TZWP(11) LJP(c)
ACC NR: AP6012664

SOURCE CODE: UR/0031/65/000/011/0035/0039

AUTHOR: Zherebyat'yev, I.F. (Candidate of physical and mathematical sciences); Luk'-yanov, A.T. (Candidate of physical and mathematical sciences); Molyukov, I.D. (Candidate of physical and mathematical sciences); Pustyl'nikov, L.M.

ORG: none

4
6

TITLE: Numerical solution of some problems in mechanics and physics on analog computers

SOURCE: AN KazSSR. Vestnik, no. 11, 1965, 35-39

TOPIC TAGS: mathematic conference, data processing conference, analog computer, computer circuit, approximation, differential equation

ABSTRACT: This article is an abridgment of a paper given at the Second All-Union Conference on Computer Mathematics, 22-26 January 1965 in Moscow. The authors propose a method of static (discrete) modeling based on using an electric circuit for reproducing a finite difference approximation of the initial differential equations. As an example of application of the method, a non-stationary equation of thermal conductivity with phase transitions (melting, evaporation) is considered, taking the temperature relationship of the thermophysical properties of the material into account. The equations and electric circuit are given. Solution of an equation for non-stationary diffusion of a gas in a liquid in the presence of a chemical reaction of fractional order is considered as well as an example of solving hyperbolic equations. Orig. art. Card 1/2

L 22102-66

ACC NR: AP6012664

has: 3 figures and 15 formulas. [JPRS]

SUB CODE: 09, 12 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 001

Card 2/2 BLG

L 40875-00 INT(1) 11

ACC NR: AR6014923

SOURCE CODE: UR/0124/65/000/011/B086/B086

AUTHORS: Zherebyat'yev, I. F.; Luk'yanov, A. T.

TITLE: Problems of nonstationary thermal conduction with moving boundaries

SOURCE: Ref. zh. Mekhanika, Abs. 11B604

REF SOURCE: Sb. tr. soiskateley i aspirantov. M-vo vyssh. i sredn. spets. obrazovaniya KazSSR, v. 1, no. 2, 1963 (1964), 171-183

TOPIC TAGS: thermal conduction, phase transition, temperature simulation, temperature dependence

ABSTRACT: The problem of calculating the temperature field and the location of the phase boundary as functions of time in an infinite sheet with a given fixed or variable thermal flux is considered. The conditions are described for simulation on static electronic integrators with which the explicit finite-difference approximation to the differential equation is reproduced. The solution is produced discretely by successive displacements of the same computer unit along the mesh points of the investigated region. Solutions are obtained both under the assumption of constant thermophysical coefficients in each of the phases as well as consideration of their temperature dependence. A calculation of the solidification rate of a semi-infinite body initially at the melting point is presented. An analysis of the calculated results in the form of the temperature dependence of the coefficients is given.

Bibliography of 13 citations. /Translation of abstract/
Card 1/1 SUB CODE: 20 11b

ZHEREKHOV, A. (Karaganda)

The brothers Rozum are miners. Sov.shakht. 12 no.12:13 D '63.
(MIRA 17:3)

ZHEREKHOV, G.I.

Demonstration of principles applied in technical apparatus. Fiz.v shkole
13 no.3:46-53 My-Je '53. (MLHA 6:6)

1. Pedagogicheskiy institut, g. Ufa.

(Electricity--Experiments)

ZHAREKHOV, G. I.

Demonstration of the principle of operation in technical apparatuses.

Fiz. v shkole 13 no.4:63-67 J1-Ag '53.

(MLBA 6:6)

1. Pedagogicheskiy institut, Ufa. (Technology--Experiments)

Category : USSR/General Problems - Problems of Teaching

A-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 2808

Author : Zherekhov, G.I.

Title : Two Experiments in Electrostatics

Orig Pub : Fizika v shkole, 1956, No 4, 67-69

Abstract : No abstract

Card : 1/1

ZHEREKHOV, G.I. (g. Ufa)

An internal-combustion engine model. Fiz.v shkole 16 no.1:
57-58 Ja-Fe '56. (MLRA 9:3)

1. Pedagogicheskiy institut.
(Gas and oil engines--Models)

ZHEREKHOV, G. I.

Two electrostatic experiments. Fiz.v shkele 16 no.4:67-69 J1-Ag
'56. (MIRA 9:9)

1.Ufa, Pedagogicheskiy institut.
(Electrostatics--Study and teaching)

ZHUREKHOV, Gennadiy Ivanovich; DUKOV, V.M., redaktor; DROZHZHIN, Yu.N., red.;
SMIRNOV, G.I., tekhn.red.

[Using demonstrations in teaching applied sciences; a manual for teachers] Politeknicheskoe obuchenie v demonstratsionnykh opytakh; posobie dlia uchitelei. Izd. 2-oe, ispr. i dop. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1957. 194 p. (MIRA 11:2)
(Science--Study and teaching)

ZHURAVKHOV, G.I.

Experiments for a physics and technology evening. *Fiz. v shkole*
17 no.3:59-62 My-Je '57. (MLRA 10:6)

1. Pedagogicheskiy institut, g. Ufa.
(Physics--Experiments)

ZHEREKHOV, Gennadiy Ivanovich; CHEBOTAREVA, A.V., red.; TSYPO, R.V.,
tekhn. red.

[Classroom demonstrations in mechanics] Demonstratsionnyi
eksperiment po mekhanike. Moskva, Uchpedgiz, 1961. 243 p.
(MIRA 15:4)

(Mechanics--Study and teaching)

ZHEREKHOV, N., polkovnik; ZVEREV, B., kand.istoricheskikh nauk, kapitan.

Immortal feat of Russian soldiers; on the 100th anniversary of the
heroic defense of Sevastopol. Voen.vest. 34 no.10:11-25 0 '54.
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(Sevastopol--Siege, 1854-1855)

CHAYKIN, P.I.; ZHEREKHOV, V.G.

Determining thorium by the arsenazo III after chromatographic
isolation. Inform.sbor.VSEGEI no.51:65-71 '61. (MIRA 15:8)
(Chromatographic analysis) (Thorium--Analysis)
(Benzeneearsonic acid)

CHAYKIN, P.I.; GOLUBEV, N.V.; ZHEREKHOV, V.G.

Determination of mesothorium 1 (radium 228) on the basis of the
-particles of mesothorium 2 (actinium 228) in the presence of
radium-226. Radiokhimiya 4 no.1:102-107 '62. (MIRA 15:4)
(Radium--Analysis) (Actinum)

CHAYKIN, P.I.; GOLUBEV, N.V.; ZHEREKHOV, V.G.

Determining mesothorium 1 in natural samples of low-level radio-
activity. Inform. sbor. VSEUEI no.18:89-98 '59. (MIRA 13:11)
(Radium--Isotopes)

ZHEREVINA, Ye.V., uchtel'nitsa

Using the materials of the 22d Congress of the CPSU in
biology classes. Biol. v shkole no.5:8-12 8-0 '62.

(MIRA 16:2)

1. Shkola-internat g. Uryupinska Volgogradskoy
oblasti.

(Biology--Study and teaching)
(Communist education)

ZHERELINA, Ye.V.

Evening dedicated to the Bird Day. Bipl. v shkole no.2:78-80 Mr-Ap '63.
(MIRA 16:4)

1. Uryupinskaya shkola-internat, Volgogradskaya oblast',
(Bird Day)

ALLIK, T.A.; ZHERELOVA, O.M.

Adenosine triphosphate, phosphocreatine and inorganic phosphorus content in the isolated sartorius muscle of a lake frog as a result of its work in a single-pulse rhythm. Nauch. dokl. vys. shkoly; biol. nauki no.1:57-58 '65. (MIRA 18:2)

1. Rekomendovana kafedroy fiziologii zhivotnykh Moskovskogo gosudarstvennogo universiteta.

BURMISTROV, Vasilii Georgiyevich; VINOGRADOV, Vasilii Ivanovich;
KAZYMOV, Vladimir Nikolayevich; KOSTIN, Vasilii
Yelizarovich; MARKOV, Arkadiy Semenovich; EYDERMAN,
Pinkhus Moiseyevich; ZHERENKOV, Ye.V., red.

[Collection of problems on the organization and technique
of trade] Sbornik zadach po organizatsii i tekhnike trgovli.
Moskva, Ekonomika, 1965. 174 p. (MIRA 18:6)